Performance analysis indoor location tracking framework with SIP on IPv6

Abstract:

The development of mobile computing and Wireless Local Area Networks (WLANs) has grown rapidly, nowadays. There are several approaches and practically work has been done on tracking mobile nodes and transmitting multimedia data among the network using wireless technology. Several applications and methods are being used to maintain the accuracy of tracking distance for the mobile nodes and broadcasting multimedia data at the same time. This paper focuses on the performance of indoor location tracking system on IPv6 Network Island with multiple real time applications that has location assisted transfer for mobile users and the variations of the results of developed system on different circumstances in indoor environment. RSSI (Received Signal Strength Indicator) mechanism has been used to locate the moving nodes. The developed location tracking server is having dynamic and centralized MySQL database management system. SIP (Session Initial Protocols) and customized Kphone user agent has been used to deploy the intercommunicating of multimedia data. The experiment has been conducted on different scenarios of an indoor environment with the effect of inter rooms.